NAVSUP
NAVAL SUPPLY SYSTEMS COMMAND

U.S. AIR FORCE SNT UPDATE

UNITED STATES NAVY SERIAL NUMBER TRACKING
SNT

SN
T

www.snt.navsup.navy.mil

Ready. Resourceful. Responsive!

MATT MULLINS
CDR, USN
10 JULY 2003

Outline

Outline

- Background/Overview
- Demonstrations
- Implementation
  - System Access
  - AIT
- Aviation Rollout
- SNT Web Page – Capabilities
- Recent Accomplishments
- Summary

How SNT Got Started

Aviation Maintenance-Supply Readiness (AMSR) Review – 1998

Challenge:

- ↓ **Lower Maintenance & Supply Cost**

- ↑ **Increase Readines**

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Overview

UNITED STATES NAVY SERIAL NUMBER TRACKING
SNT

Background/Overview

Definition: ***Closed-loop, cradle-to-grave tracking maintenance critical, serialized components, prov asset visibility and material status, and enabled b automatic identification technology***

Major Benefits:

Maintenance

- Identify Maintenance Deficiencies
- Measure Reliability
- Accurate Record Configuration
- Identify Latent Defects
- Determine Training Requirements
- Assist Engineering Investigations

Supply

- Assess Repair Turn Around Time
- Decrease Misidentification and Los
- Warranty Management
- Predict Parts Requirements
- Better Procurement Decisions
- Measure Reliability
- Achieve Total Asset Visibility

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SNT Consists of Two Pillars

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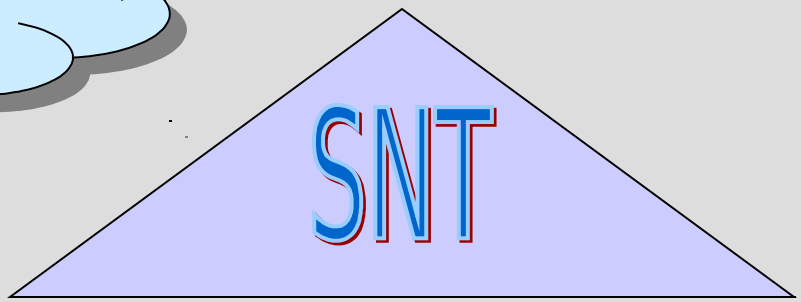
SNT

Implementation

SNT requires two components



FIRST

Live access to databases via the SNT Web-enabled portal.

Data Base Access

- WMRS/A-ORS
- eRMS/WMPS
- UICP
- WEB-CAV
- CAV-ORM
- CAV-Navy
- FACTS
- OOMA/OIMA
- R-Supply
- IBS

AIT

- CMB
- 2D Data matrix
- 2D PDF417
- ISO15418/15434
- MILSTD129
- MILSTD130
- MSL
- IRRD

SECOND

Automatic Identification Technology (AIT) is used by the SNT to maintain data accurac

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Aviation Asset/Information Flow

UNITED STATES NAVY SERIAL NUMBER TRACKING
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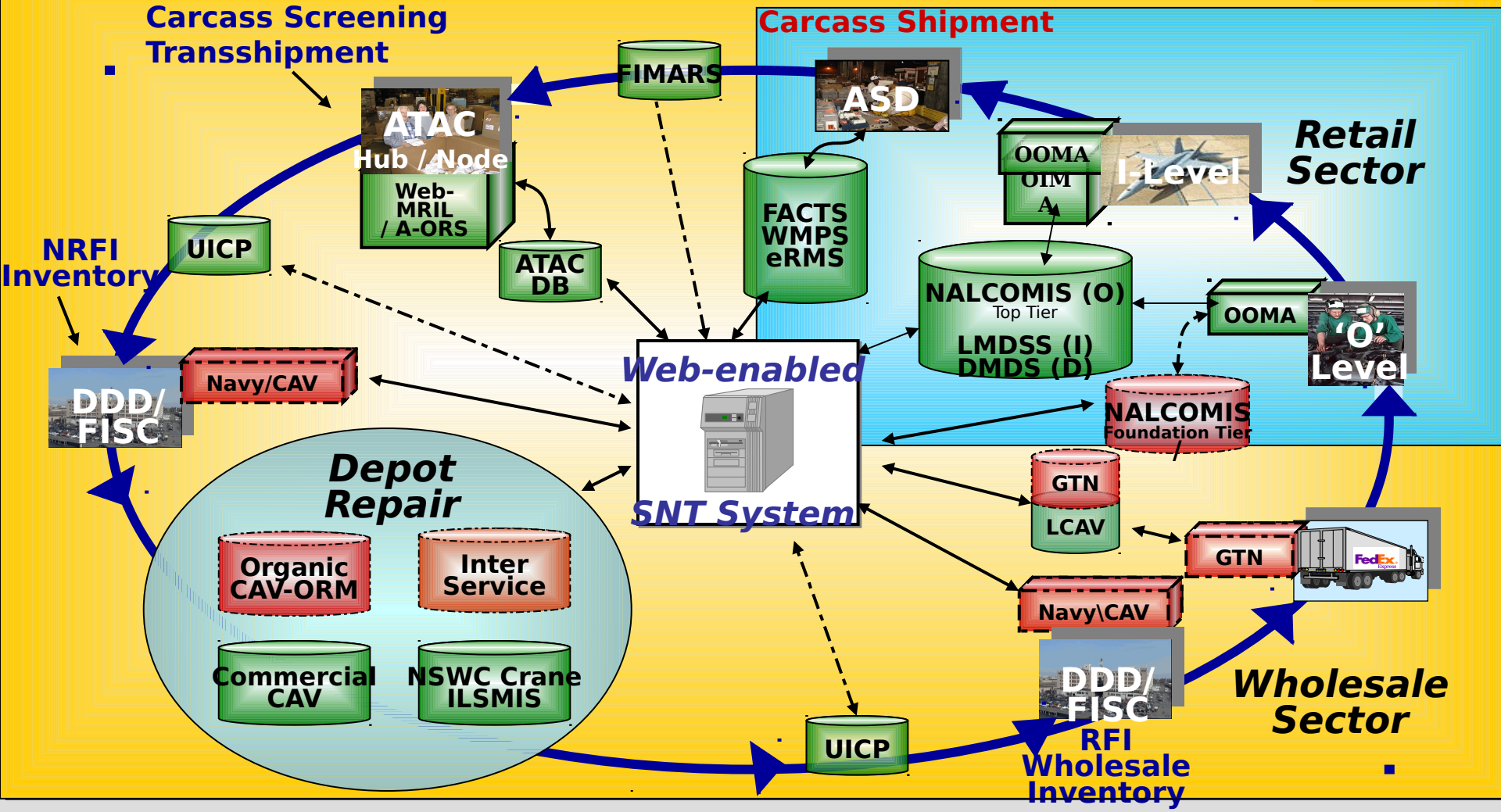
Information Systems

Overview



Connectivity | Not Connected | S/N | No | Asset Flow

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CMB

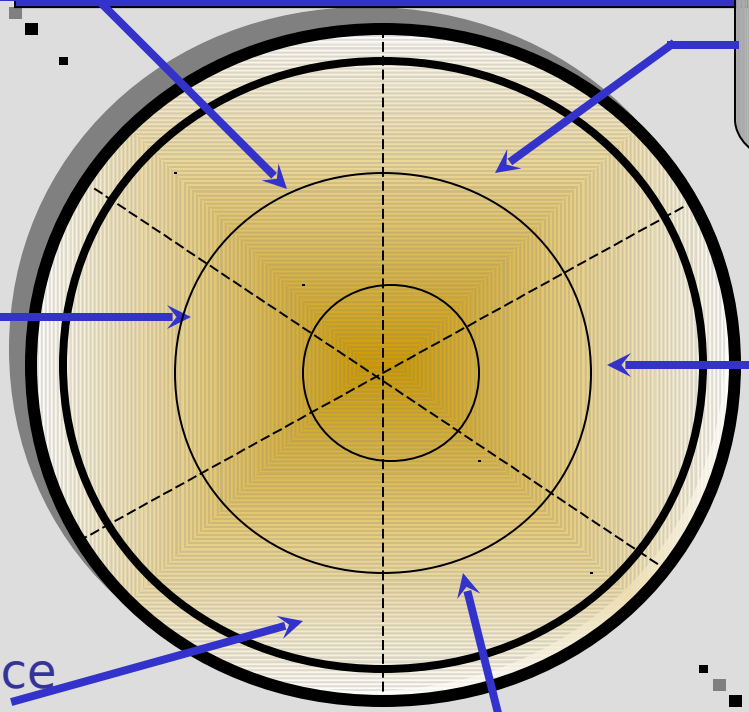
UNITED STATES NAVY SERIAL NUMBER TRACKING
SNT

AIT

Contact Memory Button (CMB)

Scheduled Removal Component Card

Computer, Air Data CPU-175/A
P/N 50-100-01 SERNO 0152
MFR K0656 CONTR F33657-85C-0025



Maintenance History**

Warranty Data

CMB Stats:
- 2k,8k,32k
- ~$7-$13 each
- Read/Write
- Dual CMB/BC Reader $1200

**Use TBD within aviation maintenance

Available for Vendor Use

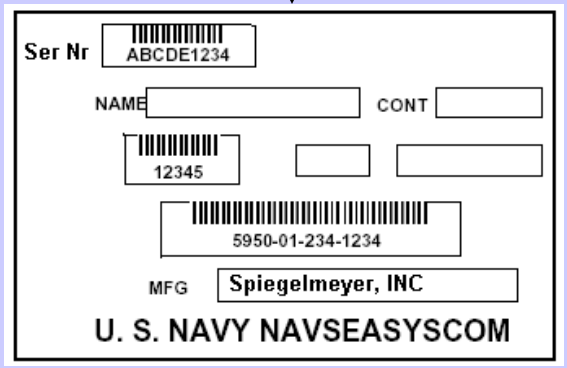
Available for Future Navy Use

Military Standards Product Marking

AIT

Mil-Std 130 Identification Marking of U. S. Property Product Marking

Today's Standard



Tomorrow's Standard

CMB

2D

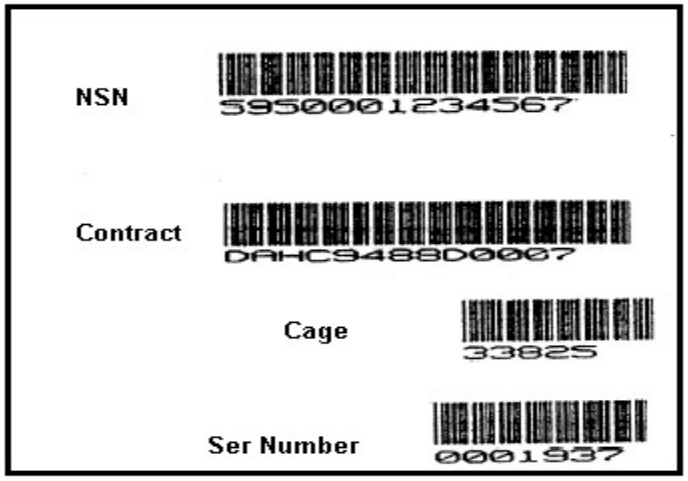
Cage V2345
PN 33489-12
NSN 5835-01-141-5888
Ser: 45367

Military Standards Package Marking

AIT

Mil Std 129P Package Marking

Today's Standard



Tomorrow's Standard

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Contracts

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Package marking

Cage: 02059
PN:102770-351
Ser: 6694
NSN 7025011415888
CONT: N00104-98-T-0023
Name: Magnetic Tape
U/I: EA
QTY: 1

Mil-Std 129 PDF417
2D
ANSI MH 10

Product Marking

Nameplate Data

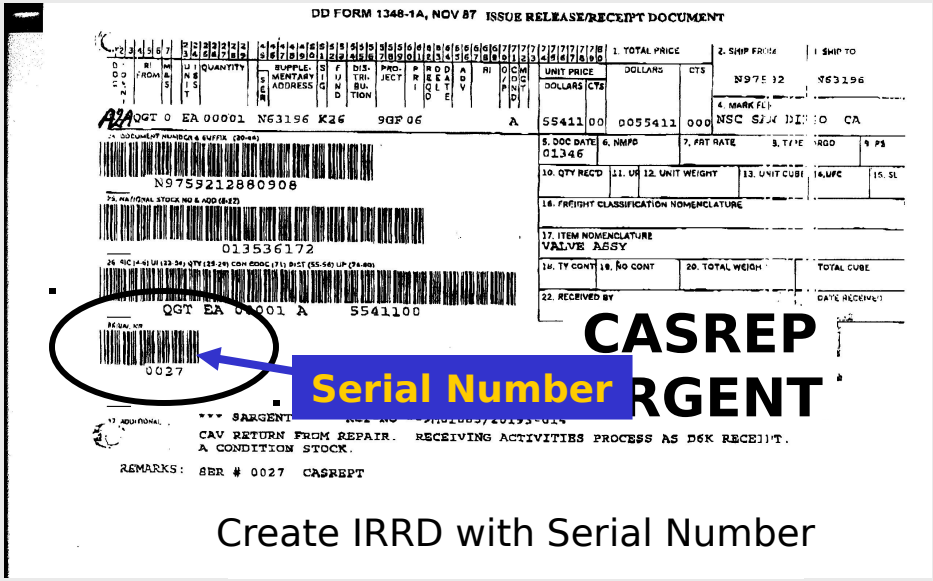
CMB

CAGE: V23456
PN: 33489-12
NSN: 5835-01-141-5888
S/N: 45367
Cont: N00383-02-G010N-0017
Name: Main Rotor Blade

2D

AIT

Invoices



Create IRRD with Serial Number

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Retrograde From Customer

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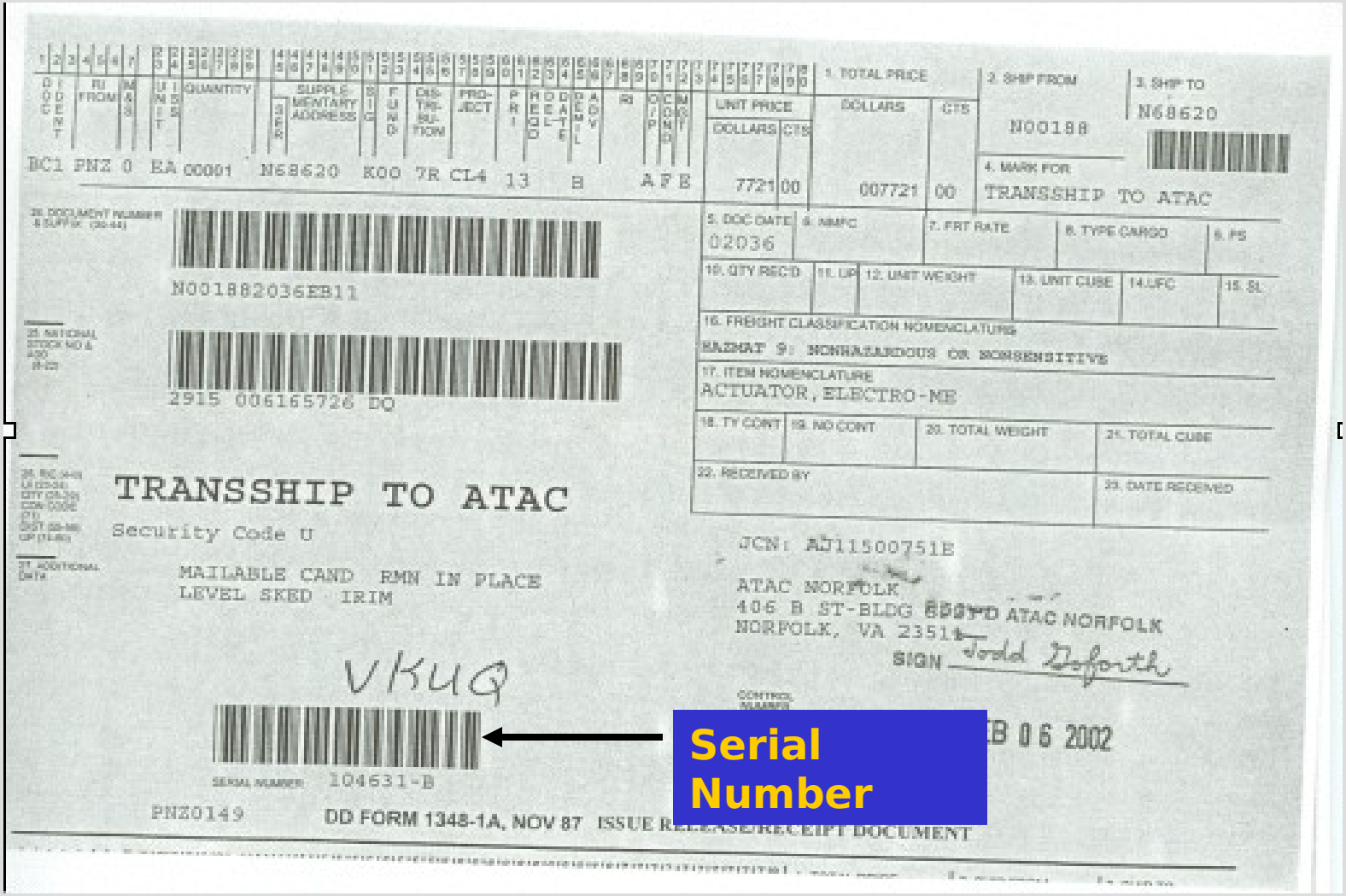
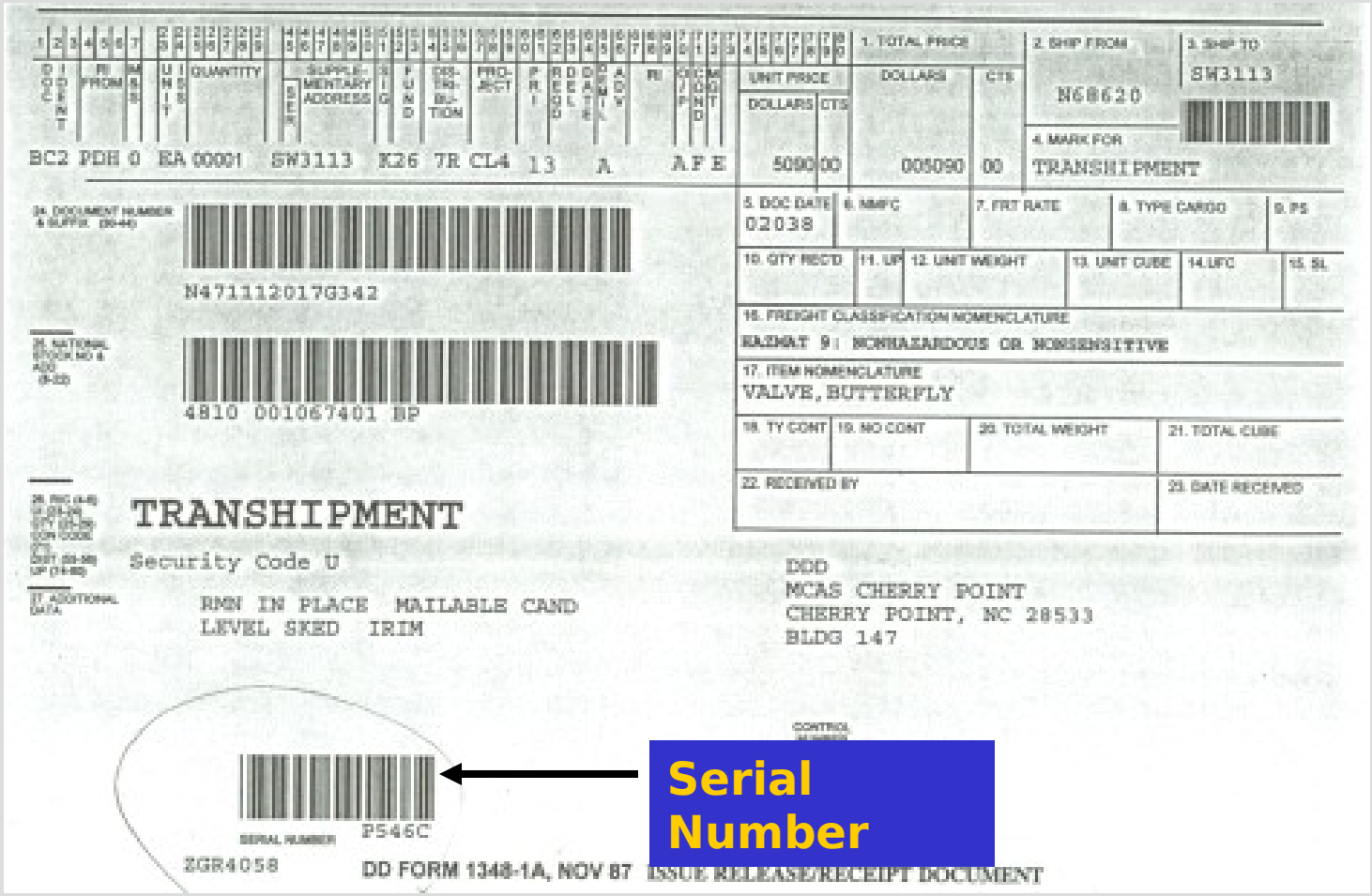
SNT

AIT



Retrograde To DD

AIT



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Supply - Aviation 5 Year Plan

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Aviation Rollout

T/M/S	Total Number Aircraft	Components per Aircraft	Total Number of Components (W/ 25% spares)	Total CMB Cost	Contractor Installation Cost	Total Engineering Document Cost	Total AIT Cost
MH-53E	46	170	9,775	$152,783.25	$272,412.00	$136,000.00	$605,932.55
CH-53E	164	170	34,850	$544,705.50	$817,236.00	$136,000.00	$1,597,820.10
CH-53D	44	104	5,720	$89,403.60	$272,412.00	$83,200.00	$486,995.50
[illegible]H-60	342	300	128,250	$2,004,547.50	$3,268,944.00	$240,000.00	$5,665,423.90
[illegible]3B	111	400	55,500	$867,465.00	$708,271.20	$320,000.00	$1,712,510.98
[illegible]6A/B	16	469	9,380	$146,609.40	$163,447.20	$375,200.00	[illegible]
[illegible]	94	196	47,530	$742,893.90	$898,959.60	$156,800.00	$1,757,972.50
[illegible]H/UH-1N	126	132	20,790	$324,947.70	$599,306.40	$105,600.00	[illegible]
[illegible]46E	280	70	20,125	$314,553.75	$926,200.80	$56,000.00	$1,383,946.57
CH/HH-46	79	70	6,913	$108,042.38	$435,859.20	$56,000.00	$609,546.56
EA-6B	124	144	22,320	$348,861.60	$1,035,165.60	$115,200.00	$1,659,147.94
MV/CV/HV-22	458	203	116,218	$1,816,479.53	$3,922,732.80	$162,400.00	$6,254,890.39
AV-8	172	921	198,015	$3,094,974.45	$871,718.40	$736,800.00	$4,899,087.53
F-14A/B/D	193	200	48,250	$754,147.50	$871,718.40	$160,000.00	$1,940,564.86
P-3's	264	75	24,750	$386,842.50	$1,797,919.20	$60,000.00	$2,452,987.68
Cargo	295	175	64,531	$1,008,623.44	$2,724,120.00	$140,000.00	$4,297,527.69
Trainers	515	129	83,044	$1,297,973.81	$817,236.00	$103,200.00	$2,389,150.46
E-2C	75	145	13,594	$212,470.31	$1,525,507.20	$116,000.00	$1,963,874.10
C-2A	38	145	6,888	$107,651.63	$217,929.60	$116,000.00	$467,500.85
F-18ABCD	745	200	186,250	$2,911,087.50	$4,794,451.20	$160,000.00	$8,327,383.34
F-18EF	548	240	164,400	$2,569,572.00	$2,179,296.00	$192,000.00	$5,205,021.20
Misc Support							$2,805,000.00
Total			1,267,091	$19,804,636.24	$29,120,842.80	$3,726,400.00	$58,211,345.83

Total # of Items marked 1,267,091

SNT Implementation Cost = $58,211,346

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Steps To Marking Parts

UNITED STATES NAVY SERIAL NUMBER TRACKING
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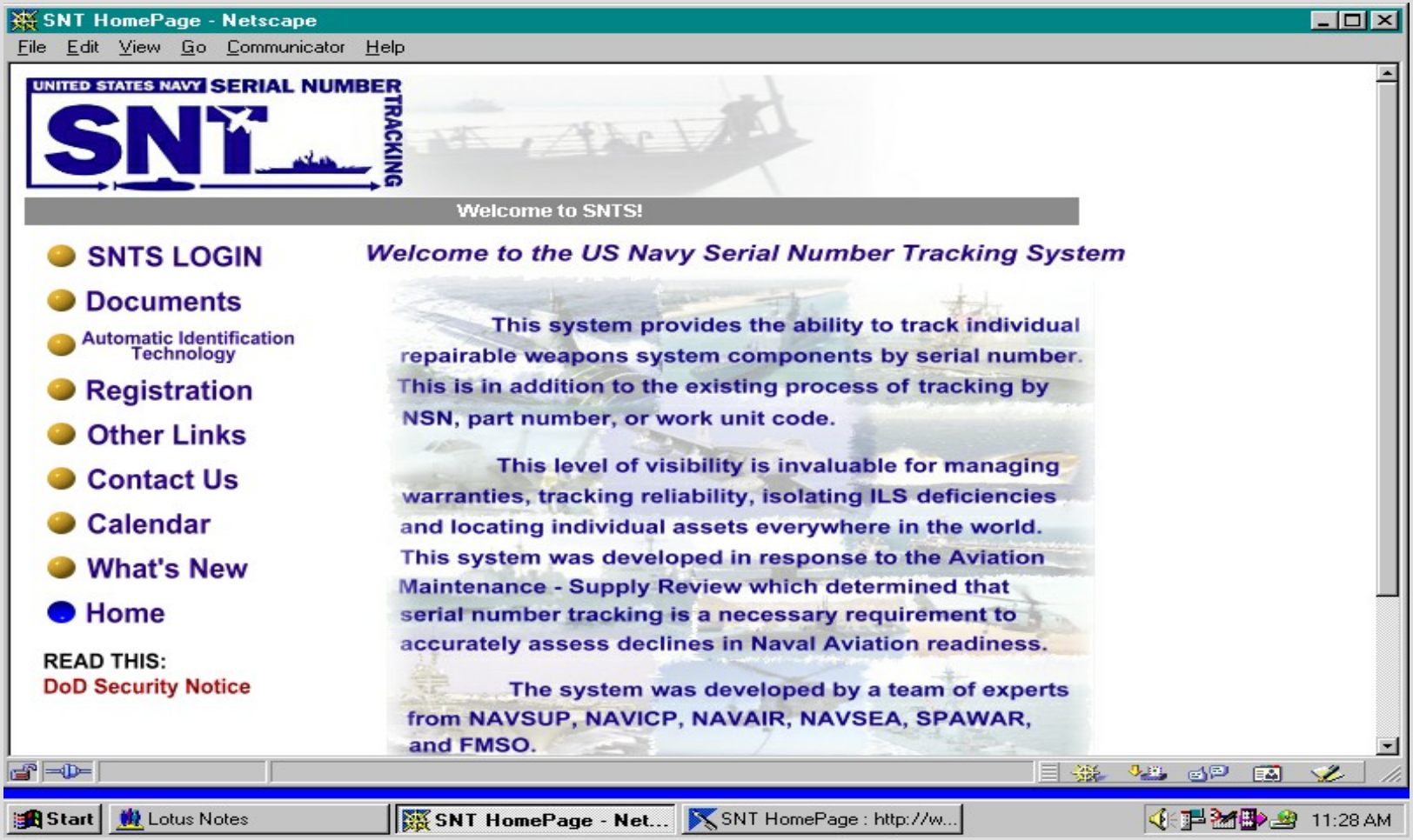
Aviation Rollout

- Identify Parts to be Marked
- Get Approval
- Update Drawings & Technical Manuals & Directives
- Provide Configuration & ILS Support
- Establish Plan for Marking
  - Plane Side
  - Warehouse (Wholesale & Retail)
  - Amend Repair Contracts/ New Items for Supply

www.snt.navsup.navy.mil HOMEPAGE

SNT Web Page


SNT HomePage - Netscape
File Edit View Go Communicator Help
UNITED STATES NAVY SERIAL NUMBER TRACKING SNT
Welcome to SNTS!
SNTS LOGIN
Documents
Automatic Identification Technology
Registration
Other Links
Contact Us
Calendar
What's New
Home
READ THIS:
DoD Security Notice
Welcome to the US Navy Serial Number Tracking System
This system provides the ability to track individual repairable weapons system components by serial number. This is in addition to the existing process of tracking by NSN, part number, or work unit code.
This level of visibility is invaluable for managing warranties, tracking reliability, isolating ILS deficiencies and locating individual assets everywhere in the world. This system was developed in response to the Aviation Maintenance - Supply Review which determined that serial number tracking is a necessary requirement to accurately assess declines in Naval Aviation readiness.
The system was developed by a team of experts from NAVSUP, NAVICP, NAVAIR, NAVSEA, SPAWAR, and FMSO.
Start
Lotus Notes
SNT HomePage - Net...
SNT HomePage : http://w...
11:28 AM

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Retrograde

UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

SNT Web Page

SNTS \ Asset Visibility \ Retrograde - Microsoft Internet Explorer provided by Navy Marine Corps Intranet

File Edit View Favorites Tools Help

Back Search Favorites History

Address https://www.snt.navsup.navy.mil/queries/AssetVisibility/Retrograde/default.shtml Go Links

UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

Retrograde

Queries | Decision Support | Administration | User Options | Help | Feedback | Log Out

Asset Visibility | Aviation Maintenance | In Transit | Inventory | Shipboard Engineering | Warranty

Search Criteria

Serial Number:

Document Number:

UIC: r03363

NIIN:

Lead TCN:

Search Reset

<< Back to Asset Visibility

Submit a Batch Query

Results

Retrograde Results > Document Number Tracking Detail

Export to Microsoft® Excel®

Printer Friendly Version

	Origin	xShip / ATAC Hub or Node	xShip / ATAC Hub or Node	DOP/DSP
Document Number	R033633072G660	R033633072G660	R033633072G660	R033633072G660
NIIN	008684353	008684353	008684353	008684353
Serial Number	BMAC-B4-0068			
Quantity	1	1	1	1
Condition Code	F	F	F	F
Activity	R03363 USS KITTY HAWK CV 63	N4533A	N46433 ATAC HUB North Island, CA	SW3122
Date Received	N/A	25 Mar 2003	16 Apr 2003	25 Apr 2003
Ship To	SW3122	N46433 ATAC HUB North Island, CA	SW3122	N/A
Date Shipped	25 Mar 2003		16 Apr 2003	N/A
LTCN	N/A	R033633072G660RXX	N443293091GK42AXX	N/A
Transportation Mode	N/A	F - Air, Air Mobility Command	T - Air, Air Freight Forwarder	N/A
RCDN	N/A	N/A	N/A	
Signature	N/A			HARDEMAN
(Data Source)	WMPS	ATAC	ATAC	ATAC/CAV

Done Internet

Reliability

NAVAL SUPPLY SYSTEMS COMMAND

UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

SNT Web Page

SNTS \ Aviation Maintenance \ Reliability - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Media

Decision Support

Address https://www.snt.navsup.navy.mil/queries/AviationMaintenance/Reliability/default.shtml

Go Links

UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

Reliability

Strong candidate

Queries | Decision Support | Administration | User Options | Help | Feedback | Log Out

Asset Visibility | Aviation Engineering | Aviation Maintenance | Inventory | Shipboard Engineering | Shipboard Maintenance | Warranty

Search Criteria

Serial Number:

Part Number: 680800-14

CAGE Code:

Type Model Series:

Search Reset

<< Back to Aviation Maintenance

Sort: <NONE> Ascending Sort

Export to Microsoft® Excel®

Printer Friendly Version

	Serial Number	Part Number	CAGE Code	CAGE Name	Type Model Series	Total BCMs	Total Transactions
1	000	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
2	0000	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
3	00000	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
4	187	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
5	1EHL011	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
6	4KBP005	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	0
7	54672	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
8	68080014	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	0
9	765	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	0
10	B0B049	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
11	C0105	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
12	CAQ-003	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	0
13	CHK00008	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	5
14	CHK008	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	4
15	CRL00027	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
16	CXH-005	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
17	CXH00005	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1

Done Internet

Start In... SN... TO... do... SN... SN... Ho... Vis... bu... SN... SN... 10:10 AM

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SNT Web Page Query Results

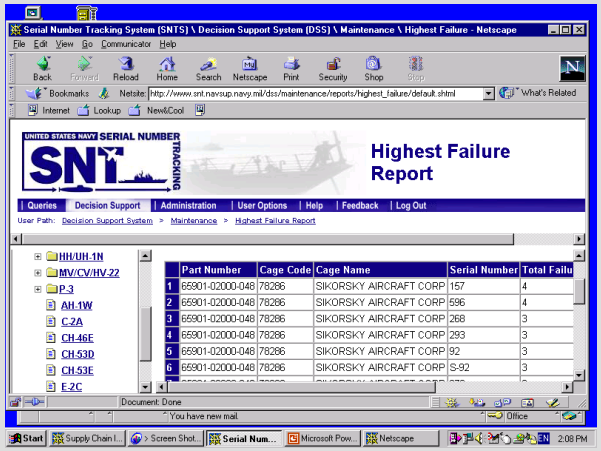
UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

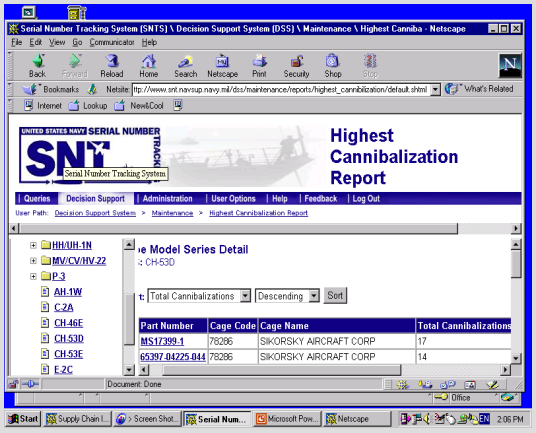
SNT Web Page

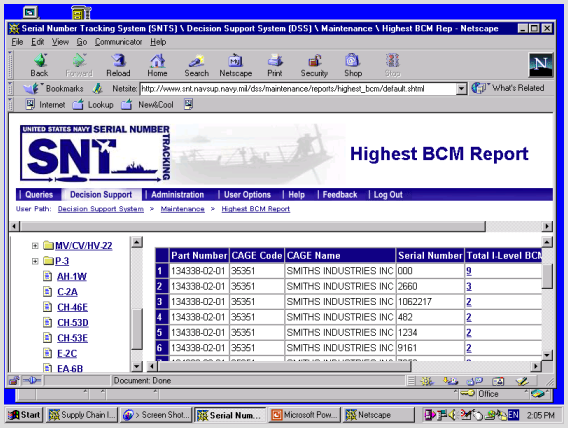
Decision Support

Generate, Collect & Analyze Maintenance Data

SNT Existing Reports







Carcass Tracking Watch

NAVAL SUPPLY SYSTEMS COMMAND

UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

SNT Web Page

Serial Number Tracking System (SNTS) \ Decision Support Module (DSM) \ Retrograde \ Carcass Tra - Microsoft Internet Explorer p
File Edit View Favorites Tools Help
Back Search Favorites History
Address https://www.snt.navsup.navy.mil/dss/retrograde/carcass_tracking/add_watch_form.shtml?action=add_form&watch_type=1
Go Links
UNITED STATES NAVY SERIAL NUMBER TRACKING SNT
Carcass Tracking Watches
Queries Decision Support Administration User Options Help Feedback Log Out
User Path: Decision Support Module > Retrograde > Carcass Tracking
Add New Carcass Watch
Document Number
R03363 - 3072 - G660 -
Timeframe:
Past 90 days
Email Notifications
Email Notifications will be sent to pamela.szymczak@navy.mil. Do you wish to receive Email Notifications for this Carcass Watch?
Yes
No
Add Cancel
Internet
Start
Inbox - Microsoft ...
Serial Number T...
Pitches
Microsoft Excel - 7...
Microsoft PowerP...
10:53

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Carcass Watch Notification

UNITED STATES NAVY SERIAL NUMBER TRACKING
SNT

SNT Web Page

Dear _____
This is an email notifying you of the status of your Carcass Watches:
Document Number: N00188-3155-GC23
NIIN: 008773277
Serial Number: 16740
Condition Code: F
Quantity: 0
Shipped From: N00188 - NAVAL AIR STATION OCEANA
Date Shipped:
LTCN:
Transportation Mode: -
Ship To: N68620 - ATAC HUB Norfolk, VA
Date Received:

NIIN: 008773277
Serial Number: 16740
Condition Code: F
Quantity: 1
Shipped From: N68620 - ATAC HUB Norfolk, VA
Date Shipped:
LTCN: N001883155GC23XXX
Transportation Mode: T - Air, Air Freight Forwarder
Ship To: SW3142
Date Received: 2003-06-05

Wholesale System Reporting S/N

Future

Coming Soon
DSS Reports SN of Selected Items For Receipts/ Issues

Web-enabled

SNT System

SNT WEB Site Accesses Navy Repository

Navy Repository

To Navy Repository A & F condition

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SIM / SNT Parallel Goals

UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

Summary

DRID 54

- *Optimize Logistics Processes to Minimize Customer Wait Time (CWT) using Variance Based Metrics* — FY02
- Customer Confidence In a Simplified Priority System With Time Definite Delivery — FY02
- ***Total Asset Visibility Through Use of AIT, Shared Data Environment and Other Applications*** — FY04
- ***Real-Time, Actionable, Web-Based Logistics Information Systems*** — FY04

Complements

- SUPER REG
- SIM Directive
- ADC 44 & 89
- DoD Interim UIC Policy – 6 SEP 02

Navy Enterprise Team Ships

Supply Maintenance Aviation Reengineering Team — SMART ERP — NAVSUP ★ NAVAIR

Summary

- SNT Project Well Underway
- Complying with DOD Directives
- Prototypes Completed - Proven Concept
- Aviation Implementation Plan Rollout
  - NAVAIR/NAVSUP Joint Effort
  - Parts Marking by Type Model Series of A/C Underway
- SNTS Web Application On Line – Accessing Live Data
  - Decision Support and Reliability Modules
- SNT is a Part of (and Complements) TAV

Backup Slides

Issues/Concerns

Background

- **Stay-the-Course (ISO15418/15434 Standards)**
- **Provide Flexibility in Assigning Data**
- **Provide Flexibility to Mark 2D as Well as Data M**
- **Realize DOD Has Been 39 Linear for 20 Years**

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Acronyms

UNITED STATES NAVY SERIAL NUMBER TRACKING
SNT

Background

A-ORS - ATAC Operating Reporting System

ATAC - Advanced Traceability And Control

BCM – Beyond Capability of Maintenance

CAV – Commercial Asset Visibility

CAV-Navy - Commercial Asset Visibility – Navy (repository of data)

CAV-ORM - Commercial Asset visibility – Organic Repair Module

CDMD-OA - Configuration Data Managers Database - Open Architecture

DDD - Defense Distribution Depot

DMDS – Depot Maintenance Data System

DSS - Distribution Standards System

eRMS - Electronic Retrograde Management System

FACTS - Fleet Automated Control Tracking System

FIMARS - Force Inventory Management Analysis Reporting System

FISC - Fleet and Industrial Supply Center

GTN - Global Transportation Network

IBS - Integrated Bar Code System

ILSMIS – Industrial Logistics Support Maintenance Information System

LCAV – Logistics Support Center Customer Asset Visibility

LMDSS - Logistics Management Decision Support System

MILSTD - Military Standards (129-Package marking standards & 130-Property marking standards)

MRIL – Master Repairable Item List

MSL - Military Shipping Label

NALCOMIS - Naval Aviation Logistics Command/Management Information System

OIMA - Optimized-Intermediate Maintenance Activity

OOMA - Optimized-Organizational Maintenance Activity

PDF - Portable Data File

R-RAM – Reengineered Residual Asset Manager

R-Supply - Relational Supply

STS – SMART Transportation Solution

T/M/S – Type Mode Series

UICP - Uniform Automated Data Processing System – Inventory Control Point

WEB-CAV - Web – Commercial Asset Visibility

WMPS - Web-MRIL Partnering Site

NAVSUP NAVAL SUPPLY SYSTEMS COMMAND

Military Shipping Labels

UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

Background

Today

MILITARY SHIPMENT LABEL DD FORM 1387, NOV 86

1. TRANSPORTATION CONTROL NUMBER
S150A12420110XXX

2. POSTAGE DATA

3. FROM E12345 NONEXISTANT CO
1234 NOWHERE STREET
FORT WAYNE, IN 46809
OFFICIAL BUSINESS PENALTY FOR PRIVATE USE $300

4. TYPE SERVICE
5

5. SHIP TO / POE
FB4418
CHS TRANSPORTATION OFFICER
CHARLESTON AIR FORCE BASE
CHARLESTON, SC 29484

6. TRANSP. PRIORITY
2

7. POD RMS RAMSTEIN AB GERMANY

8. PROJECT
000

9. ULTIMATE CONSIGNEE OR MARK FOR
S1501A
1242 M110XXX
BASE SUPPLY
COMMANDING OFFICER
SAUDI ARABIA

10. WT THIS PC
85

11. RDD
000

12. CU THIS PC
7.9

13. CHARGES

14. DATE SHIPPED
07 MAY 92

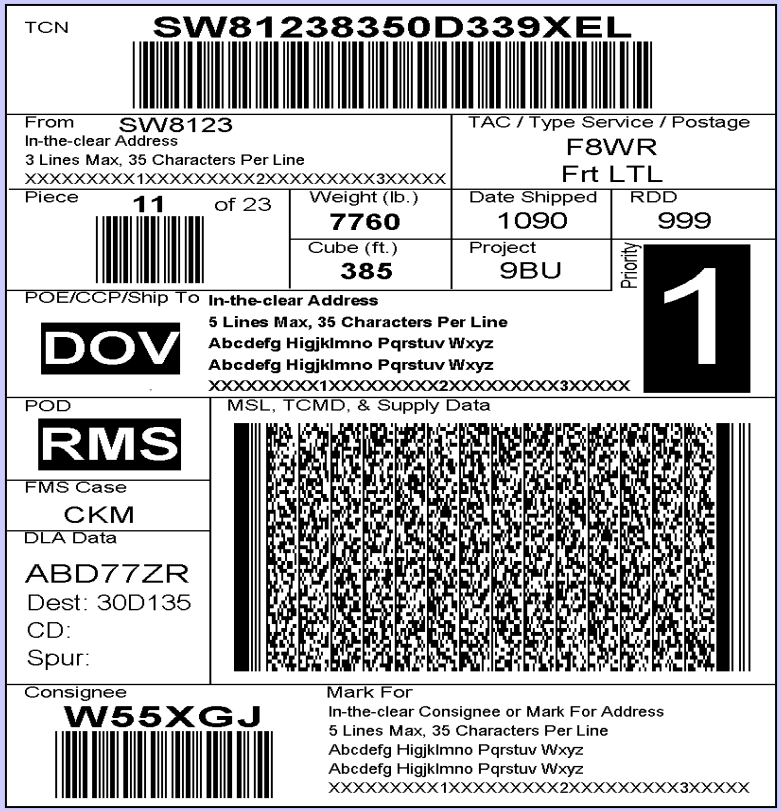
15. FMS CASE

16. PIECE NO.
1

17. TOTAL PIECES
1

FORM APPROVED OMB NO. 0704-0188

Tomorrow


TCN SW81238350D339XEL

From SW8123
In-the-clear Address
3 Lines Max, 35 Characters Per Line
XXXXXXXXX1XXXXXXXXX2XXXXXXXXX3XXXXX

TAC / Type Service / Postage
F8WR
Frt LTL

Piece 11 of 23

Weight (lb.) 7760

Date Shipped 1090

RDD 999

Cube (ft.) 385

Project 9BU

Priority 1

POE/CCP/Ship To
DOV

In-the-clear Address
5 Lines Max, 35 Characters Per Line
Abcdefg Higjklmno Pqrstuv Wxyz
Abcdefg Higjklmno Pqrstuv Wxyz
XXXXXXXXX1XXXXXXXXX2XXXXXXXXX3XXXXX

POD
RMS

MSL, TCMD, & Supply Data

FMS Case
CKM

DLA Data
ABD77ZR
Dest: 30D135
CD:
Spur:

Consignee
W55XGJ

Mark For
In-the-clear Consignee or Mark For Address
5 Lines Max, 35 Characters Per Line
Abcdefg Higjklmno Pqrstuv Wxyz
Abcdefg Higjklmno Pqrstuv Wxyz
XXXXXXXXX1XXXXXXXXX2XXXXXXXXX3XXXXX